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A NOTE ON TIME PALINDROMIC SEQUENCES IMBEDDED IN THE DIGITAL TIME GROUP T_G

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Abstract: The digital time group T_G, defined by one of us KSR (with Pankaj Pundir) [1] has three two-digit fields for its elements: $h_2h_1 : m_2m_1 : s_2s_1$ and is identified with appropriate restricted place values on the hours (H), minutes (M) and seconds (S) fields. It is an 86,400-element Digital Time group, T_G. In this note it is shown that there exists a time-ordered sequence of 125 palindromic elements, as a subset of the group T_G, starting with 1:11:11 (interpreting, for example, 1:23:21 which without the semicolons, is 12321, a palindromic number, which reads the same when read from left to right or right to left), ending with 5:55:55 which gives rise to a new hierarchy of palindromic sequences.

Keywords and Phrases: Analytic Number Theory, sequences, palindromic sequences, digital time group, Digital Time, Finite Group, Finite Field, Order of